



1600

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/744,097A

DATE: 06/18/2003
TIME: 07:35:59

Input Set : A:\6429PCTSEQ.txt
Output Set: N:\CRF4\06182003\I744097A.raw

2 <110> APPLICANT: Shafer, David A.
4 <120> TITLE OF INVENTION: Methods for Detecting and Mapping Genes,
5 Mutations and Variant Polynucleotide Sequences
7 <130> FILE REFERENCE: D6429
9 <140> CURRENT APPLICATION NUMBER: US 09/744,097A
10 <141> CURRENT FILING DATE: 2001-01-16
12 <150> PRIOR APPLICATION NUMBER: PCT/US99/16242
13 <151> PRIOR FILING DATE: 1999-07-16
15 <160> NUMBER OF SEQ ID NOS: 147
17 <210> SEQ ID NO: 1
18 <211> LENGTH: 20
19 <212> TYPE: DNA
20 <213> ORGANISM: Artificial Sequence
22 <220> FEATURE:
23 <223> OTHER INFORMATION: First probe target
25 <400> SEQUENCE: 1
26 accacaagac atgcaccccg 20
28 <210> SEQ ID NO: 2
29 <211> LENGTH: 22
30 <212> TYPE: DNA
C--> 31 <213> ORGANISM: Artificial Sequence
33 <220> FEATURE:
34 <223> OTHER INFORMATION: Forward Primer
36 <400> SEQUENCE: 2
37 ccagggtttt cccagtcacg ac 22
40 <210> SEQ ID NO: 3
41 <211> LENGTH: 24
42 <212> TYPE: DNA
43 <213> ORGANISM: Artificial Sequence
45 <220> FEATURE:
46 <223> OTHER INFORMATION: Reverse primer
48 <400> SEQUENCE: 3
49 gagcggataa caatttcaca cagg 24
51 <210> SEQ ID NO: 4
52 <211> LENGTH: 24
53 <212> TYPE: DNA
54 <213> ORGANISM: Artificial Sequence
56 <220> FEATURE:
57 <223> OTHER INFORMATION: Reverse probe generic linker
59 <400> SEQUENCE: 4
60 gagcctggct cacccttaggt ccag 24
62 <210> SEQ ID NO: 5
63 <211> LENGTH: 23

ENTERED

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64 <212> TYPE: DNA
65 <213> ORGANISM: Artificial Sequence
67 <220> FEATURE:
68 <223> OTHER INFORMATION: Reverse probe target
70 <400> SEQUENCE: 5
71 cccacacccgc taaagcgctt tcc 23
73 <210> SEQ ID NO: 6
74 <211> LENGTH: 24
75 <212> TYPE: DNA
76 <213> ORGANISM: Artificial Sequence
80 <220> FEATURE:
81 <223> OTHER INFORMATION: Reverse linker oligomer
83 <400> SEQUENCE: 6
84 ctggacctag qgtgagccag gctc 24
86 <210> SEQ ID NO: 7
87 <211> LENGTH: 22
88 <212> TYPE: DNA
89 <213> ORGANISM: Artificial Sequence
91 <220> FEATURE:
92 <223> OTHER INFORMATION: Reverse linker forward primer
94 <400> SEQUENCE: 7
96 ccagggttt cccagtcacg ac 22
98 <210> SEQ ID NO: 8
99 <211> LENGTH: 63
100 <212> TYPE: DNA
101 <213> ORGANISM: Artificial Sequence
103 <220> FEATURE:
104 <223> OTHER INFORMATION: Target specific oligomer
106 <400> SEQUENCE: 8
107 gtagcctagc taccctagg tctagttac cacaagacat gcatccgtt 50
108 tgtagatagg tag 63
110 <210> SEQ ID NO: 9
111 <211> LENGTH: 37
112 <212> TYPE: DNA
113 <213> ORGANISM: Artificial Sequence
115 <220> FEATURE:
116 <223> OTHER INFORMATION: Overlap oligomer
119 <400> SEQUENCE: 9
120 gtagcctagc taccctagg tctagctacc tatctac 37
122 <210> SEQ ID NO: 10
123 <211> LENGTH: 24
124 <212> TYPE: DNA
125 <213> ORGANISM: Artificial Sequence
127 <220> FEATURE:
128 <223> OTHER INFORMATION: Proximal linker
130 <400> SEQUENCE: 10
131 tagacctagg ggttagctagg ctac 24
133 <210> SEQ ID NO: 11
134 <211> LENGTH: 24

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135 <212> TYPE: DNA
136 <213> ORGANISM: Artificial Sequence
138 <220> FEATURE:
139 <223> OTHER INFORMATION: Reverse primer
141 <400> SEQUENCE: 11
142 gagcggataa caatttcaca cagg 24
144 <210> SEQ ID NO: 12
145 <211> LENGTH: 25
146 <212> TYPE: DNA
147 <213> ORGANISM: Artificial Sequence
149 <220> FEATURE:
150 <223> OTHER INFORMATION: Distal linker
-152 <400> SEQUENCE: 12
153 gtagccttagc tacccttagg tctag 25
156 <210> SEQ ID NO: 13
157 <211> LENGTH: 22
158 <212> TYPE: DNA
159 <213> ORGANISM: Artificial Sequence
161 <220> FEATURE:
162 <223> OTHER INFORMATION: Forward primer
164 <400> SEQUENCE: 13
165 ccagggtttt cccagtcacg ac 22
167 <210> SEQ ID NO: 14
168 <211> LENGTH: 24
169 <212> TYPE: DNA
170 <213> ORGANISM: Artificial Sequence
172 <220> FEATURE:
173 <223> OTHER INFORMATION: Proximal linker
175 <400> SEQUENCE: 14
176 tagacctagg ggtagctagg ctac 24
178 <210> SEQ ID NO: 15
179 <211> LENGTH: 24
180 <212> TYPE: DNA
181 <213> ORGANISM: Artificial Sequence
183 <220> FEATURE:
184 <223> OTHER INFORMATION: Reverse primer
186 <400> SEQUENCE: 15
187 gagcggataa caatttcaca cagg 24
189 <210> SEQ ID NO: 16
190 <211> LENGTH: 22
191 <212> TYPE: DNA
192 <213> ORGANISM: Artificial Sequence
W--> 193 <220> FEATURE:
194 <223> OTHER INFORMATION: Forward primer
197 <400> SEQUENCE: 16
198 ccagggtttt cccagtcacg ac 22
200 <210> SEQ ID NO: 17
201 <211> LENGTH: 24
202 <212> TYPE: DNA

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Input Set : A:\6429PCTSEQ.txt
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203 <213> ORGANISM: Artificial Sequence
205 <220> FEATURE:
206 <223> OTHER INFORMATION: Terminator
208 <400> SEQUENCE: 17
209 tagacctagg ggttagctagg ctac 24
211 <210> SEQ ID NO: 18
212 <211> LENGTH: 63
213 <212> TYPE: DNA
214 <213> ORGANISM: Artificial Sequence
216 <220> FEATURE:
217 <223> OTHER INFORMATION: Target oligomer
219 <400> SEQUENCE: 18
220 gtagcctagc tacccttagg tctagtttac cacaaggacat gcatcccg 50
221 tgttagatagg tag 63
223 <210> SEQ ID NO: 19
224 <211> LENGTH: 37
225 <212> TYPE: DNA
226 <213> ORGANISM: Artificial Sequence
228 <220> FEATURE:
229 <223> OTHER INFORMATION: Overlap linker
231 <400> SEQUENCE: 19
232 gtagcctagc tacccttagg tctagctacc tatctac 37
234 <210> SEQ ID NO: 20
235 <211> LENGTH: 57
236 <212> TYPE: DNA
237 <213> ORGANISM: Artificial Sequence
239 <220> FEATURE:
240 <223> OTHER INFORMATION: Proximal subunit
242 <400> SEQUENCE: 20
243 ctagacctag gggtagctag gctacatacg atactaggc ataacatagg 50
244 cttacca 57
246 <210> SEQ ID NO: 21
247 <211> LENGTH: 57
248 <212> TYPE: DNA
249 <213> ORGANISM: Artificial Sequence
251 <220> FEATURE:
252 <223> OTHER INFORMATION: Distal subunit
254 <400> SEQUENCE: 21
255 gtagcctagc tacccttagg tctagctagt atcgatggc ataacatagg 50
256 cttacca 57
258 <210> SEQ ID NO: 22
259 <211> LENGTH: 20
260 <212> TYPE: DNA
261 <213> ORGANISM: Artificial Sequence
263 <220> FEATURE:
264 <223> OTHER INFORMATION: Label subunit
266 <400> SEQUENCE: 22
267 tggtaaggct atgttatgcc 20
268 <210> SEQ ID NO: 23

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Input Set : A:\6429PCTSEQ.txt
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269 <211> LENGTH: 25
270 <212> TYPE: DNA
271 <213> ORGANISM: Artificial Sequence
273 <220> FEATURE:
274 <223> OTHER INFORMATION: Terminator
276 <400> SEQUENCE: 23
277 ctagacctag gggtagctag gctac 25
279 <210> SEQ ID NO: 24
280 <211> LENGTH: 36
281 <212> TYPE: DNA
282 <213> ORGANISM: Artificial Sequence
284 <220> FEATURE:
285 <223> OTHER INFORMATION: First probe subunit -----
287 <400> SEQUENCE: 24
288 ggtcctatcc ggtatttagat ttctagggtt accata 36
290 <210> SEQ ID NO: 25
291 <211> LENGTH: 38
292 <212> TYPE: DNA
293 <213> ORGANISM: Artificial Sequence
295 <220> FEATURE:
296 <223> OTHER INFORMATION: Reverse probe subunit
298 <400> SEQUENCE: 25
299 gctacttagc atactttacc acaagacatg catcccg 38
301 <210> SEQ ID NO: 26
302 <211> LENGTH: 40
303 <212> TYPE: DNA
304 <213> ORGANISM: Artificial Sequence
306 <220> FEATURE:
307 <223> OTHER INFORMATION: Forward ring subunit one
309 <400> SEQUENCE: 26
310 tagacctagg ggtagctagg ctactttata agtacgtac 40
312 <210> SEQ ID NO: 27
313 <211> LENGTH: 14
314 <212> TYPE: DNA
315 <213> ORGANISM: Artificial Sequence
317 <220> FEATURE:
318 <223> OTHER INFORMATION: Forward ring subunit two
320 <400> SEQUENCE: 27
321 tatggtaacc ctag 14
323 <210> SEQ ID NO: 28
324 <211> LENGTH: 40
325 <212> TYPE: DNA
326 <213> ORGANISM: Artificial Sequence
328 <220> FEATURE:
329 <223> OTHER INFORMATION: Reverse ring subunit one
331 <400> SEQUENCE: 28
332 tagacctagg ggtagctagg ctactttgct acgtacttat 40
334 <210> SEQ ID NO: 29
335 <211> LENGTH: 14

VERIFICATION SUMMARY DATE: 06/18/2003
PATENT APPLICATION: US/09/744,097A TIME: 07:36:00

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L:31 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:2
L:193 M:283 W: Missing Blank Line separator, <220> field identifier